ABSTRACT

A method of controlling transmission power in a mobile radio system in which a power control algorithm controls transmission power as a function of a transmission quality target value, wherein~~:~~ a target value ~~variation~~ is ~~applied~~varied to compensate the effects of a compressed transmission mode in which transmission is interrupted during transmission gaps and the bit rate is increased correspondingly to compensate the transmission gaps~~,~~. The~~said~~ target value variation includes a first component for compensating the effects of ~~said~~the increase in bit rate and a second component for compensating other effects of transmission gaps~~,~~. A~~a~~ corresponding anticipated variation of the transmission power is applied, and ~~said~~the anticipated variation of the transmission power corresponds to an approximate value of ~~said~~the target value variation obtained by a process of approximation from ~~said~~the second component.